To: see form PCT/ISA/220			PCT		
			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORIT		
(;		(PCT Rule 43bis.1)
The state of the s				Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)
	licant's or agent's file form PCT/ISA/2			FOR FURTHER ACTION See paragraph 2 below	
ì	rnational application T/GB2004/00539		International filing date (22.12.2004	day/month/year)	Priority date (day/month/year) 23.12.2003
i			both national classification 11/46, C07D207/12,		D211/18, C07D211/38, C07D207/10,
, , .	licant HOOL OF PHAF	RMACY, UNIVE	ERSITY OF LONDON	J.	
			The state of the s		
1.	This opinion co	ontains indication	ons relating to the fol	lowing items:	
<u> </u>	☑ Box No. I	Basis of the op	pinion		
	☐ Box No. II	Priority			
}	☐ Box No. III	Non-establishr	ment of opinion with reg	ard to novelty, inve	ntive step and industrial applicability
1	☐ Box No. IV	Lack of unity o	f invention		
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or indust applicability; citations and explanations supporting such statement					
	☐ Box No. VI	Certain docum	ents cited		
	☐ Box No. VII	Certain defects	s in the international ap	plication	
	☐ Box No. VIII	Certain observ	ations on the internatio	nal application	
2.	FURTHER ACT	ION			
THE REPORT OF THE PROPERTY OF	written opinion of the applicant che	of the Internation ooses an Author reau under Rule	al Preliminary Examinir ity other than this one t	ng Authority ("IPEA" o be the IPEA and t	will usually be considered to be a '). However, this does not apply where the chosen IPEA has notifed the rnational Searching Authority
The state of the s	submit to the IPI	EA a written repleted a written repleted to the contract of mailing and the contract of the co	y together, where appr	opriate, with amend	he IPEA, the applicant is invited to Iments, before the expiration of three ion of 22 months from the priority date,
	For further optio	ns, see Form PC	CT/ISA/220.		
3.	For further details, see notes to Form PCT/ISA/220.				

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Diederen, J

Authorized Officer

Telephone No. +31 70 340-1097



International application No. PCT/GB2004/005390

	Box N	o. I Basis of the opinion
1.	With re	egard to the language , this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
	la	nis opinion has been established on the basis of a translation from the original language into the following inguage—, which is the language of a translation furnished for the purposes of international search index Rules 12.3 and 23.1(b)).
2.	With reneces:	egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:
	a. type	e of material:
		a sequence listing
		table(s) related to the sequence listing
	b. forn	nat of material:
		in written format
		in computer readable form
	c. time	e of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.	h: cc	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.
4.	Additi	onal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-36

No:

Inventive step (IS)

Yes: Claims

Claims

No: Claims

1-36

Industrial applicability (IA)

Yes: Claims

1-36

No: Claims

2. Citations and explanations

see separate sheet

Reference is made to the following documents:

D1: WO 91/05824 A (NAT RES DEV) 2 May 1991 (1991-05-02)

D2: COLLIER D A ET AL: "SYNTHESIS, MOLECULAR MODELING, DNA BINDING, AND ANTITUMOR PROPERTIES OF SOME SUBSTITUTED AMIDOANTHRAQUINONES" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 31, no. 4, 1988, pages 847-857, XP002063827 ISSN: 0022-2623

D3: AGBANDJE M ET AL: "ANTHRACENE-9,10-DIONES AS POTENTIAL ANTICANCER AGENTS. SYNTHESIS, DNA-DINDING, AND BIOLOGICAL STUDIES ON A SERIES OF 2,6DISUBSTITUTED DERIVATIVES" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, voi. 35, no. 8, 1992, pages 1418-1429, XP002063825 ISSN: 0022-2623

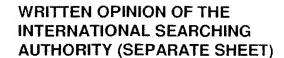
Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-36 does not involve an inventive step in the sense of Article 33(3) PCT.

Document D1 is considered the closest prior art document. The said document discloses anthraquinone compounds in which the amino alkyl amino substituent is among others cyclic nitrogen containing groups (see claim 1 of D1 in which R' and R" together are a C2-6 alkylene group which with the nitrogen atom to which R' and R" are attached forms a heterocyclic group having 3 to 7 atoms).

The difference of this disclosure and the present application is that in the present application, this heterocyclic structure is substituted by at least one X2 or X2 substituted



C1-4 alkyl group, in which X2 is halogen, hydroxyl, C1-6alkoxyl, aryloxy or acyloxy group. The problem to be solved by the applicant was to provide alternative anthraquinone compounds for use in the treatment of cancer.

Documents D2 and D3 disclose amidoanthraquinone compounds, which bear cyclic groups (compounds 4,5,7,8,9 in D2 and compounds 13-16 in D3 bear piperidine groups), of which a few are substituted by CH2OH and CH2CH2-OH groups. The compounds with these substituents show the lowest IC50 values, showing that these compounds have the highest activities with respect to tumour cell lines. The difference of these compounds with the compounds of the present application is that the compounds of D2 and D3 are anthraquinone compounds, substituted with substituted amido groups, whereas in the present application, the anthraquinone compounds are substituted with at least one substituted amine group.

A skilled person confronted with the problem of providing alternative anthraquinone compounds for use in the treatment of cancer would, starting from D1, use the teaching of D2 and D3 to come to the solution of the present application. He would substitute the heterocyclic group in D1 with a (CH2)1-2OH group, as he would expect this to have a positive effect on the antitumour activity of the compounds.

It is therefore considered that the subject-matter of claims 1-29 is not inventive with respect to Article 33(3) PCT.

Claims 30-36 concern intermediate compounds and their processes to prepare such compounds. These intermediate compounds are used to prepare the compounds of formula I of claim 1 of the present application. As these compounds are not inventive, the intermediate products cannot be regarded as inventive either. The subject-matter of claims 30-36 is therefore considered not to involve an inventive step according to Article 33(3) PCT.



8 June 2006

The International Bureau of WIPO 34 Chemin des Colombettes 1211 Geneva 20 Switzerland

BY COURIER

Dear Sirs

International Patent Application No. PCT/GB 04/05390 School of Pharmacy, University of London Our Ref: HMJ03752WO

The addresses for inventors Laurence Hylton PATTERSON and Klaus PORS have changed to:

The Institute of Cancer Therapeutics University of Bradford West Yorkshire BD7 1DP United Kingdom

Please issue Form PCT/IB/306 as soon as possible as the 30 month term mentioned In R92 bis(b) is 23 June 2006.

Yours faithfully GILL JENNINGS & EVERY LLP

H M M Jones

Gill Jennings & Every LLP

European Patent Attorneys European Trade Mark Attorneys

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Accounts: A J Shlafkou IT Systems: G G Amabilino

Patent Formalities: A A Heathcote Records: Patents: G M Alderman

Trade Marks: J H Bedding

Also at:

Alicante

Cambridge Munich



7 June 2006

The International Bureau of WIPO 34 Chemin des Colombettes 1211 Geneva 20 Switzerland

Dear Sirs

International Patent Application No. PCT/GB 04/05390 School of Pharmacy, University of London Our Ref: HMJ03752WO

We request the recordal of a change in respect of the applicant for all designated states other than US. The application has been assigned to the following company:

Somanta Limited

a company registered in England and Wales

of 117 Alexander Park Road, London, N10 2DP, UK

Please record the change with immediate effect (the 30 months indicated under Rule 92 bis(b) is **23 June 2006**).

Yours faithfully
GILL JENNINGS & EVERY LLP

H M M Jones

Gill Jennings & Every LLP

European Patent Attorneys
European Trade Mark Attorneys

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Accounts: A J Shiafkou IT Systems: G G Amabilino

Patent Formalities: A A Heathcote Records: Patents: G M Alderman

Trade Marks: J H Bedding

Also at:

Ali**ca**nte Cambridge

Munich

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

To

GILL JENNINGS & EVERY Broadgate House 7 Eldon Street London EC2M 7LH ROYAUME-UNI

Date of mailing (day/month/year) 16 February 2005 (16.02.2005)			
Applicant's or agent's file reference HMJ03752WO	IMPORTANT NOTIFICATION		
International application No. PCT/GB04/005390	International filing date (day/month/year) 22 December 2004 (22.12.2004)		
International publication date (day/month/year)	Priority date (day/month/year) 23 December 2003 (23.12.2003)		
Applicant			

1. By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).

SCHOOL OF PHARMACY, UNIVERSITY OF LONDON et al

- 2. (If applicable) The letters "NR" appearing in the right-hand column denote a priority document which, on the date of mailing of this. Form, had not yet been received by the International Bureau under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 3. (If applicable) An asterisk (*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b) (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as the priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority_date	Priority application No.	Country or regional Office or PCT receiving Office	Date of receipt of priority document
23 December 2003 (23.12.2003)	0329820.5	GB	08 February 2005 (08.02.2005)
24 December 2003 (24.12.2003)	0330011.8	GB	08 February 2005 (08.02.2005)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20. Switzerland	Authorized officer Cruz Juan	
Facsimile No. +41 22 740 14 35	Facsimile No. +41 22 338 89 65 Telephone No. +41 22 338 8239	

PCT

FIRST NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION (TO DESIGNATED OFFICES WHICH DO NOT APPLY THE 30 MONTH TIME LIMIT UNDER ARTICLE 22(1))

(PCT Rule 47.1(c))

To:

GILL JENNINGS & EVERY Broadgate House 7 Eldon Street London EC2M 7LH ROYAUME-UNI

Date of mailing (day/month/year)
28 July 2005 (28.07.2005)

Applicant's or agent's file reference
HMJ03752WO

IMPORTANT NOTICE

International application No.
PCT/GB2004/005390

International filing date (day/month/year)
22 December 2004 (22.12.2004)

Priority date (day/month/year)
23 December 2003 (23.12.2003)

Applicant

SCHOOL OF PHARMACY, UNIVERSITY OF LONDON et al

- ATTENTION: For any designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002 (30 months from
 the priority date), does apply, please see Form PCT/IB/308(Second and Supplementary Notice) (to be issued promptly after the expiration
 of 28 months from the priority date).
- Notice is hereby given that the following designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002, does not apply, has/have requested that the communication of the international application, as provided for in Article 20, be effected under Rule 93bis.1. The International Bureau has effected that communication on the date indicated below:
 07 July 2005 (07.07.2005)

СН

In accordance with Rule 47.1(c-bis)(i), those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

3. The following designated Offices, for which the time limit under Article 22(1), as in force from 1 April 2002, does not apply, have not requested, as at the time of mailing of the present notice, that the communication of the international application be effected under Rule 93bis.1:

LU. SE, TZ, UG, ZM

In accordance with Rule 47.1(c-bis)(ii), those Offices accept the present notice as conclusive evidence that the Contracting State for which that Office acts as a designated Office does not require the furnishing, under Article 22, by the applicant of a copy of the international application.

4. TIME LIMITS for entry into the national phase

For the designated Office(s) listed above, and unless a demand for international preliminary examination has been filed before the expiration of 19 months from the priority date (see Article 39(1)), the applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 20 MONTHS from the priority date.

In practice, time limits other than the 20-month time limit will continue to apply, for various periods of time, in respect of certain of the designated Offices listed above. For regular updates on the applicable time limits (20 or 21 months, or other time limit). Office by Office, refer to the PCT Gazette, the PCT Newsletter and the PCT Applicant's Guide, Volume II. National Chapters, all available from WIPO's Internet site, at http://www.wipo.in/pct/en/index.html.

It is the applicant's sole responsibility to monitor all these time limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20. Switzerland

Authorized officer

Nora Lindner

From the INTERNATIONAL BUREAU

GILL JENNINGS & EVERY

Broadgate House

London EC2M 7LH

7 Eldon Street

ROYAUME-UNI

SECOND AND SUPPLEMENTARY NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION (TO DESIGNATED OFFICES WHICH APPLY THE 30 MONTH TIME

(PCT Rule 47.1(c))

LIMIT UNDER ARTICLE 22(1))

Date of mailing (day/month/year) 27 April 2006 (27.04.2006) Applicant's or agent's file reference HMJ03752WO IMPORTANT NOTICE International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/GB2004/005390 22 December 2004 (22.12.2004) 23 December 2003 (23.12.2003) Applicant SCHOOL OF PHARMACY, UNIVERSITY OF LONDON et al

To:

- 1. ATTENTION: For any designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002 (30 months from the priority date), does not apply, please see Form PCT/IB/308(First Notice) issued previously.
- 2. Notice is hereby given that the following designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002, does apply, has/have requested that the communication of the international application, as provided for in Article 20, be effected under Rule 93bis.1. The International Bureau has effected that communication on the date indicated below: 07 July 2005 (07.07.2005)

AU, AZ, BY, CN, CO, DZ, EP, HU, KG, KP, KR, MD, MK, MZ, NA, PG, RU, SY, TM, US

In accordance with Rule 47.1(c-bis)(i), those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

The following designated Offices, for which the time limit under Article 22(1), as in force from 1 April 2002, does apply, have not requested, as at the time of mailing of the present notice, that the communication of the international application be effected under Rule 93bis.1:

AE, AG, AL, AM, AP, AT, BA, BB, BG, BR, BW, BZ, CA, CR, CU, CZ, DE, DK, DM, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, JP, KE, KZ, LC, LK, LR, LS, LT, LV, MA, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PH, PL, PT, RO, SC, SD, SG, SK, SL, SM, TJ, TN, TR, TT, UA, UZ, VC, VN, YU, ZA, ZW

In accordance with Rule 47.1(c-bis)(ii), those Offices accept the present notice as conclusive evidence that the Contracting State for which that Office acts as a designated Office does not require the furnishing, under Article 22, by the applicant of a copy of the international application.

4. TIME LIMITS for entry into the national phase

For the designated or elected Office(s) listed above, the applicable time limit for entering the national phase will. subject to what is said in the following paragraph, be 30 MONTHS from the priority date.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain of the designated or elected Office(s) listed above. For regular updates on the applicable time limits (30 or 31 months, or other time limit), Office by Office, refer to the PCT Gazette, the PCT Newsletter and the PCT Applicant's Guide, Volume II. National Chapters, all available from WIPO's Internet site, at http://www.wipo.ini/pct/en/index.html.

It is the applicant's sole responsibility to monitor all these time limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20. Switzerland

Authorized officer

Nora Lindner

Facsimile No.+41 22 740 14 35

Faccimile No 111 22 338 80 65

PCT

For receiving Office use only	
International Application No.	
International Filing Date	
Name of receiving Office and "PCT International Application"	
Applicant's or agent's file reference	_

REQUEST				
	International Filing Date			
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application" Applicant's or agent's file reference (If desired) (12 characters maximum) HMJ03752WO			
	(1) desired (12 characters meaning) (mooth of 12.10			
Box No. I TITLE OF INVENTION ANTI CANCER COMPOUNDS				
Box No. II APPLICANT This person	n is also inventor			
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen	the address indicated in this			
SCHOOL OF PHARMACY, UNIVERSITY OF LOND				
29-39 Brunswick Square London WC1N 1AX	Teleprinter No.			
United Kingdom	Applicant's registration No. with the Office			
State (that is, country) of nationality: GB	State (that is, country) of residence: GB			
This person is applicant for the purposes of: all designated states all designated the United states	ed States except States of America only the States indicated in the Supplemental Box			
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	THER) INVENTOR(S)			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) PATTERSON, Laurence Hylton School of Pharmacy, University of London 29-39 Brunswick Square London WC1N 1AX United Kingdom This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Official designation. The address must include postal code and name of country. The country of the address indicated in this applicant only Applicant only Applicant's registration No. with the Official designation. This person is:				
State (that is, country) of nationality: GB	State (that is, country) of residence: GB			
This person is applicant all designated all designator the purposes of:	ted States except States of America of America only the States indicated in the Supplemental Box			
Further applicants and/or (further) inventors are indicated	on a continuation sheet.			
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE				
The person identified below is hereby/has been appointed to accord the applicant(s) before the competent International Authorities	t on behalf es as: agent common representative			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) Telephone No. +44 20 7377 1377				
Gill Jennings & Every	Facsimile No.			
Broadgate House	+44 20 7377 1310			
7 Eldon Street London	Teleprinter No.			
EC2M 7LH				
United Kingdom	Agent's registration No. with the Office			
Address for correspondence: Mark this check-box when space above is used instead to indicate a special address t	re no agent or common representative is/has been appointed and the o which correspondence should be sent.			

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)					
If none of the following sub-boxes is used, this sheet should not be included in the request.					
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this				
PORS, Klaus School of Pharmacy, University of London 29-39 Brunswick Square London WC1N 1AX United Kingdom	applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office				
State (that is, country) of nationality: DK	State (that is, country) of residence: GB				
This person is applicant for the purposes of: all designated all designated the United States	I States except ates of America the United States the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a legal entitude address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence and the state of	applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office				
State (that is, country) of nationality: GB	State (that is, country) of residence: NZ				
This person is applicant for the purposes of: all designated states all designated the United States	d States except tates of America the United States the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office					
State (that is, country) of nationality:	State (that is, country) of residence:				
	d States except the United States the States indicated in the States of America only the Supplemental Box				
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office					
State (that is, country) of nationality:	State (that is, country) of residence:				
This person is applicant all designated all designate for the purposes of:	ed States except the United States the States indicated in States of America only the Supplemental Box				
Further applicants and/or (further) inventors are indicated on another continuation sheet.					

Sheet		2	
Cheet	No	J	

Box No. V DESIGNATIONS					
The filing of this request con filing date, for the grant of e	stitutes under Rule 4.9(a), the very kind of protection available	e designation of all Contra ble and, where applicable,	acting States bound by the for the grant of both regi	e PCT on the international onal and national patents.	
However,					
DE Germany is not de	esignated for any kind of natio	onal protection			
KR Republic of Korea	is not designated for any kir	nd of national protection			
RU Russian Federatio	n is not designated for any ki	ind of national protection			
the national law, of an earlie	be used to exclude (irrevocable or national application from wi s in these and certain other St	hich priority is claimed. S	ned in order to avoid the deethe Notes to Box No. V	ceasing of the effect, under as to the consequences of	
Box No. VI PRIORITY	CLAIM				
The priority of the following	earlier application(s) is hereb	y claimed:			
Filing date	Number	V	Where earlier application	is:	
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office	
item (1) 23 December 2003	0329820.5	GB			
item (2) 24 December 2003	0330011.8	GB			
item (3)					
Further priority claims	are indicated in the Suppleme	ntal Box.			
The receiving Office is reque the earlier application was fi above as:	ested to prepare and transmit to led with the Office which for to	o the International Bureau he purposes of this interna	a certified copy of the ea tional application is the t	rlier application(s) (only if receiving Office) identified	
all items ite	em (1) item (2	item (3)	other, s	ee Supplemental Box	
* Where the earlier applicati Industrial Property or one M	on is an ARIPO application, it ember of the World Trade Or	ndicate at least one country	y party to the Paris Conv earlier application was fi	ention for the Protection of iled (Rule 4.10(h)(ii)):	
		•••••			
Box No. VII INTERNAT	TONAL SEARCHING AUT	THORITY			
Choice of International Sec international search, indicate	arching Authority (ISA) (if to the Authority chosen; the two	two or more International : -letter code may be used):	Searching Authorities are	competent to carry out the	
ISA /	• • • • • • • • • • • • • • • • • • • •				
Request to use results of ea International Searching Author	rlier search; reference to the prity):	hat search (if an earlier se	earch has been carried or	ut by or requested from the	
Date (day/month/year) 15 S	eptember 2004 Numb	oer RS111247GB Cour	ntry (or regional Office)	EPO	
Box No. VIII DECLARATIONS					
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable Number of declarations below and indicate in the right column the number of each type of declaration): Number of					
Box No. VIII (i)	Declaration as to the identit	ty of the inventor		:	
Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent:				:	
Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application :					
Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America):					
Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty:					

Box No. IX CHECK LIST; LANGUAGE OF FILING						
This international application contains: (a) in paper form, the following number of sheets: This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in of items right column the number of each item): 1. This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in of items right column the number of each item):						
request (including declaration sheets) 4		: '				
description (excluding	2. ☐ original separate power of attorney					
sequence listings and/or	3. original general power of attorney	:				
tables related thereto) : 46	4. a copy of general power of attorney; reference number, if any:	. 1				
claims : 6	5. statement explaining lack of signature	:				
abstract : 1	6. priority document(s) identified in Box No. VI as	-				
drawings : 4	item(s):					
Sub-total number of sheets: 61 sequence listings:	7. Translation of international application into (language):					
tables related thereto : (for both, actual number of	8. separate indications concerning deposited microorganism or other biological material	m :				
sheets if filed in paper form, whether or not also filed in	9. sequence listings in computer readable form (indicate type and number of carriers)					
computer readable form; see (c) below)	(i) copy submitted for the purposes of international search Rule 13ter only (and not as part of the international a	ch under				
Total number of sheets : 61 (b) only in computer readable form	(ii) (only where check-box (b)(i) or (c)(i) is marked in left co additional copies including, where applicable, the cop purposes of international search under Rule 13ter	humn)				
(Section 801(a)(i)) (i) ☐ sequence listings	(iii) 1 together with relevant statement as to the identity of t	he copy or				
(ii) ☐ tables related thereto (c) ☐ also in computer readable form	copies with the sequence listings mentioned in left co					
(Section 801(a)(ii))	 (indicate type and number of carriers) (i) ☐ copy submitted for the purposes of international sear 	ch under				
(i) ☐ sequence listings (ii) ☐ tables related thereto	Section 802(b-quater) only (and not as part of the int application)	ernational :				
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	 (ii) only where check-box (b)(ii) or (c)(ii) is marked in left additional copies including, where applicable, the copurposes of international search under Section 802(b) 	column) py for the -quater) :				
sequence listings: (iii) together with relevant statement as to the identity of the copy or						
tables related thereto:	tables related thereto:					
Figure of the drawings which should accompany the abstract:	Language of filing of the international application:					
Box No. X SIGNATURE OF APPLICAN	, AGENT OR COMMON REPRESENTATIVE	TrF				
Next to each signature, indicate the name of the person sig	ing and the capacity in which the person signs (if such capacity is not obvious fi	rom reading the request).				
For The Applicant Gill Jennings & Every						
JONES, Helen Marjorie Meredith	Date: 23 December 2004					
	For receiving Office use only					
Date of actual receipt of the purported international application:		2. Drawings:				
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:						
4. Date of timely receipt of the required corrections under PCT Article 11(2):						
5. International Searching Authority (if two or more are competent): ISA / 6. Transmittal of search copy delayed until search fee is paid						
	For International Bureau use only					
Date of receipt of the record copy by the International Bureau:						

This sheet is not part of and does not count as a sheet of the international application.

FEE CALCULATION SHEET

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International Appli	cation No.	
7-7-		

Annex to the Request	International Application No.
Annea to the Nequest	
Applicant's or agent's file reference HMJ03752WO	Date stamp of the receiving Office
Applicant School of Pharmacy, University of London	
CALCULATION OF PRESCRIBED FEES	
1. TRANSMITTAL FEE	
2. SEARCH FEE	
(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)	
3. INTERNATIONAL FILING FEE	
Where items (b) and/or (c) of Box No. IX apply, enter Sub-total number of sheets Where items (b) and (c) of Box No. IX do not apply, enter Total number of sheets	
i1 first 30 sheets	
$\frac{12}{12}$ 31 x $\frac{7}{12}$ = 217	i2
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
additional component (only if sequence listing and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii)):	
$400 x \underline{\qquad} = \underline{0}$	
fee per sheet Add amounts entered at i1, i2 and i3 and enter total at I	845.00
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4. FEE FOR PRIORITY DOCUMENT (if applicable)	44.00 P
5. TOTAL FEES PAYABLE	
Add amounts entered at T, S, I and P, and enter total in the TOTAL b	TOTAL
MODE OF DAYAWAY	
MODE OF PAYMENT authorization to charge postal money order [_
deposit account (see below)	cash coupons
cheque bank draft	revenue stamps other (specify):
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT (This mode of payment may not be available at all receiving Offices) Receiving Office: RO/	
Authorization to charge the total fees indicated above.	Deposit Account No.:
(This check-box may be marked only if the conditions for deposit account of the receiving Office so permit) Authorization to charge any deficient or credit any overpayment in the total fees indicated above.	nnts Date:
Authorization to charge the fee for priority document.	Signature: